

*Fig. 1*  
Figure 1, Current RF Reader Connection to a Service

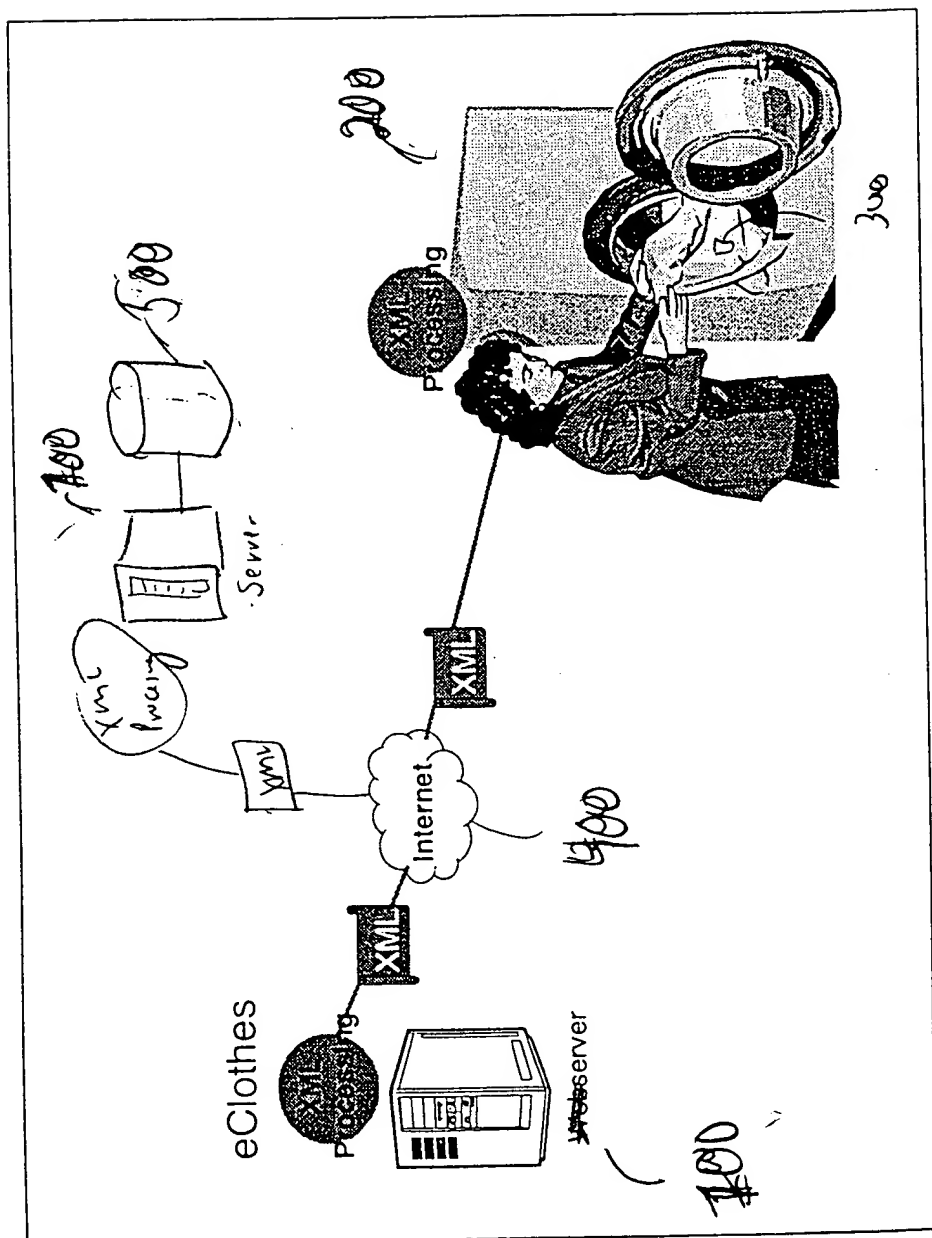


Figure 2, Washing Machine enabled by the tag terminal

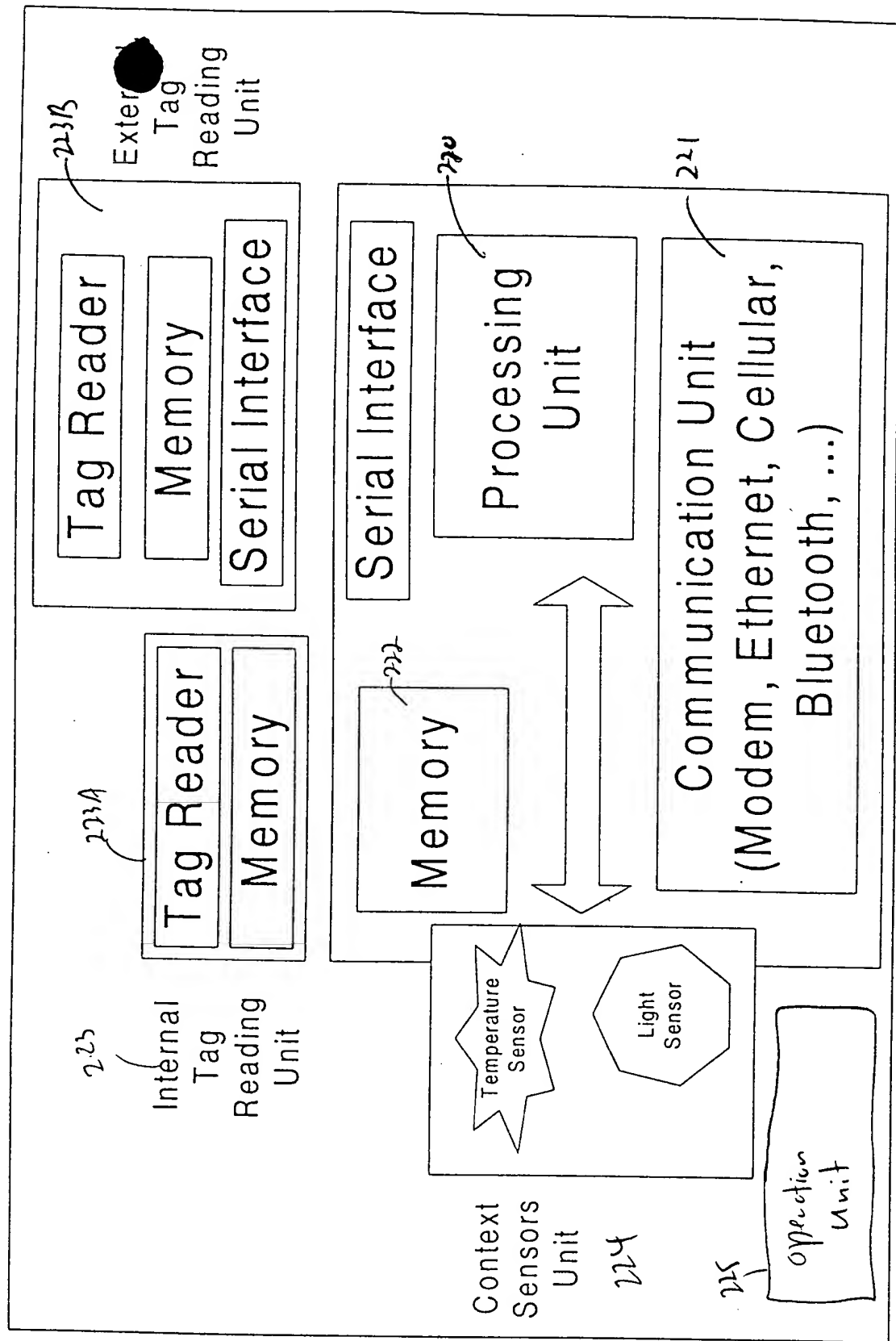


Figure 3, Hardware Design of Terminal

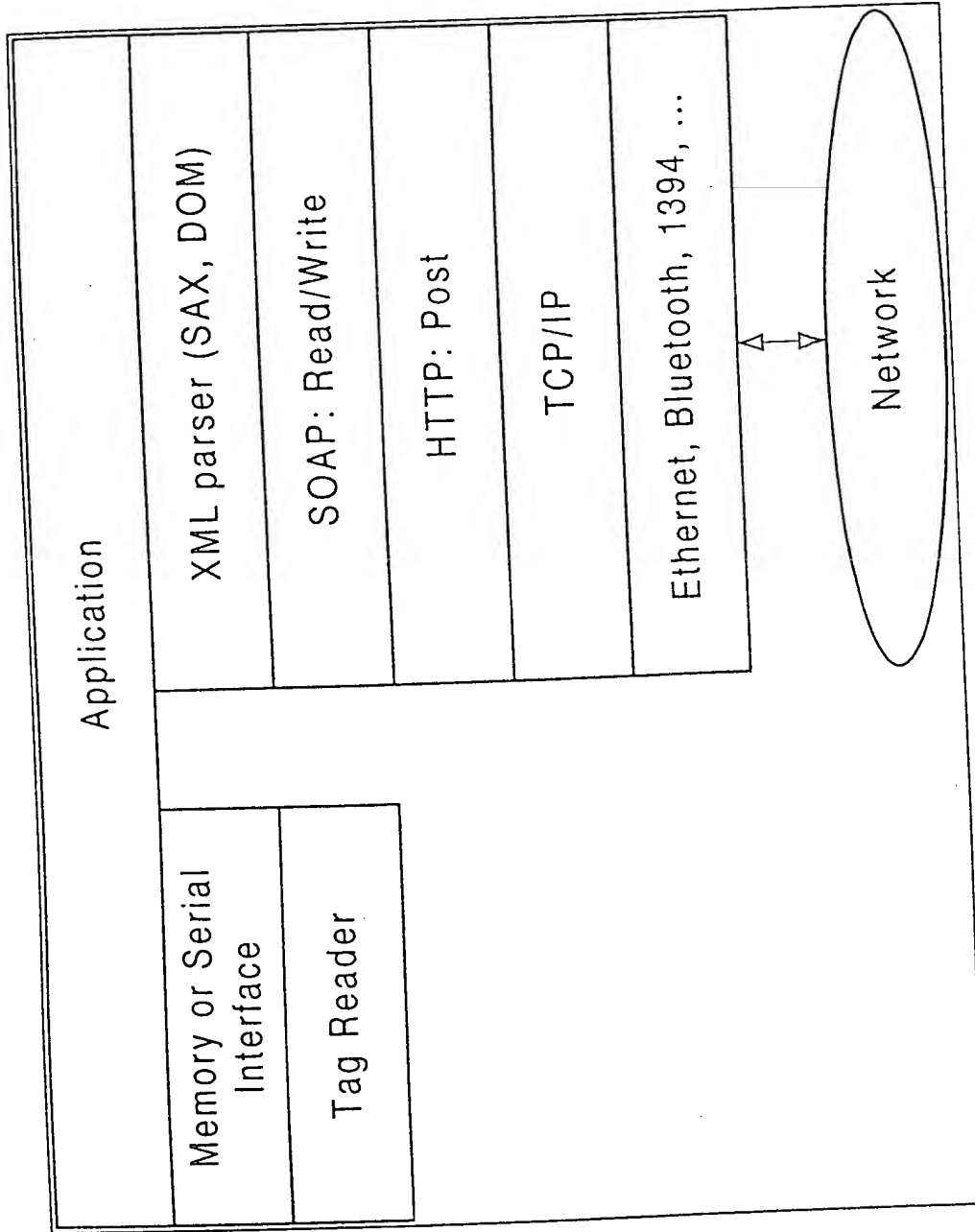


Figure 4, ~~Communication Stacks for Terminal~~

```
POST /soap/servlet/rpcrouter HTTP/1.1
Connection: Keep-Alive
Host: http://www. PhilipsServiceRouter.com:8080
Content-type: text/xml
Content-length: 527
SOAPAction: ""

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance" xmlns:xsd="http://www.w3.org/1999/XMLSchema">
<SOAP-ENV:Body>
<m: getWashingMachineSettings s xmlns:m=" http://www.PhilipsServiceRouter.com/soap/WashingMachineSetting"
SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
<Reader>
<Number> 1234567 </Number>
<Manufacturer> Philips Semiconductor </Manufacturer>
</Reader>
<Garment>
<RFTag xsi:type="xsd:string"> AC 7B 9C 00 00 00 01 </RFTag>
<Owner xsi:type="xsd:string">Gap Clothes</Owner>
</Garment>
<Terminal>
<Brand xsi:type="xsd:string">Whirlpool</Brand>
<Model xsi:type="xsd:string">I510M</Model>
</Terminal>
</m: getWashingMachineSettings >
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Fig. 5

```

HTTP/1.0 200 OK
Date: Wed, 13 Sep 2000 16:02:38 GMT
Status: 200
Set-Cookie2: JSESSIONID=To1075mC3300827385008166At;Version=1;Discard;Path="/soap"
Servlet-Engine: Tomcat Web Server/3.1 (JSP 1.1; Servlet 2.2; Java 1.3.0; Windows
NT 4.0 x86; java.vendor=Sun Microsystems Inc.)
Set-Cookie: JSESSIONID=To1075mC3300827385008166At;Path=/soap
Content-Type: text/xml; charset=UTF-8
Content-Length: 707
Content-Language: en

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance" xmlns:xsd="http://www.w3.org/1999/XMLSchema">
  <SOAP-ENV:Body>
    <ns1:getWashingMachineSettings
      xmlns:ns1="http://www.PhilipsServiceRouter.com/soap/WashingMachineSetting" SOAP-
      ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
      <return xmlns:ns2="urn:Whirlpool-WashingMachine-Settings" xsi:type="ns2:WMResponse">
        <washing xsi:type="ns2:washing">
          <temperature xsi:type="xsd:int">150</temperature>
          <time xsi:type="xsd:int">20</time>
          <rpm xsi:type="xsd:int">120</rpm>
          .....
        </washing>
        <spinning xsi:type="ns2:spinning">
          <time xsi:type="xsd:int">5</time>
          <rpm xsi:type="xsd:int">600</rpm>
          .....
        </spinning>
      </return>
    </ns1:getWashingMachineSettings>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

Fig. 6